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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/748, 935	11/13/96	IMAI	S 44085-32

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MCDERMOTT WILL & EMERY
600 13TH STREET NW
WASHINGTON DC 20005-3096

NGUYEN, T
ART UNIT PAPER NUMBER

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 08/748,935	Applicant(s) hai; Fujii; Fujiwara; Sakagawa; Nakagawa; Matsuu
Examiner Thu Nguyen	Group Art Unit 2772

Responsive to communication(s) filed on Apr 2, 1999

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

Claim(s) 1-28 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 1-28 is/are rejected.

Claim(s) _____ is/are objected to.

Claims _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The proposed drawing correction, filed on _____ is approved disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

Claim Objections

1. Claim 25 is objected to because of the following informalities:

In claim 25, line 7, the word “grop” should be changed to “group”.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Letcher, Jr.

(U.S Patent No. 5,627,949).

As per claim 23, Letcher teaches a computer implemented method of generating a three-dimensional form data. The method comprises the steps of: generating a plurality of lines and projecting the lines to generate a group of curves along a surface of a three dimensional form model (fig.27; col.12, lines 41-43; col.15, lines 60-67; col.16, lines 1-23); and modifying the group of curves by moving a curve in the group (col.3, lines 50-63; col.16, lines 30-37 and col.13, lines 57-67). Letcher does not explicitly teach moving a curve or curves along a surface of

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the three dimensional form model. However, Letcher teaches changing the coordinate of a control point of a curve on the surface of the model (col.16, lines 5-8 and lines 30-37), it would have been obvious to a person of ordinary skill in the art at the time the invention was made that when a control point of a curve is changed, the curve is changed according to the control point. Since the curve depends on the surface of the model, when the curve is changed, the surface of the model must change to contain the curve, this fact implies that the curve change along the surface of the model as claimed.

As per claim 24-25, refer to discussion in claim 23 above. Further, Letcher teaches adding a curve to the group of curves as claimed (col.13, lines 63-65) and deleting a curves from the group of curves as claimed (col.13, lines 65-67).

As per claim 26-28, refer to discussion in claims 23-25 above. The claimed software and medium for executing the program is the extend of the claimed method above.

As per claim 1, refer to discussion in claim 23 above. Further, Letcher teaches generating horizontal two-dimensional closed curves as claimed (col.16, lines 1-5).

As per claim 2, Letcher teaches parametric curve group (col.9, lines 24-30).

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As per claim 3, Letcher teaches moving the control points of the parametric curve group (col.16, lines 30-38).

As per claim 5, Letcher teaches spline curve group (col.16, lines 1-3).

As per claim 4 and 6, using display device to generate the three-dimensional form data would have been well known to a person of ordinary skill in the art at the time the invention was made.

As per claim 7-8, refer to discussion in claims 1 and 24 above.

As per claim 9, refer to discussion in claim 1 above. The claimed computer medium is the extent of the claimed method of claim 1 above.

As per claim 10-12, the claimed memory devices would have been well known to a person of ordinary skill in the art at the time the invention was made.

As per claim 13-22, refer to discussion in claim 7-13 above.

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Response to Amendment

4. The indicated allowability of claims 1-22 is withdrawn in view of the newly discovered reference(s) to Letcher, Jr. (U.S Patent No. 5,627,949). Rejections based on the newly cited reference(s) is discussed under 35 USC 103 rejection above.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (703) 306-9130. The examiner can normally be reached on Monday-Thursday from 8:00 am to 5:00 pm ET.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Powell, can be reached on (703) 305-9703. The fax phone number for this Group is (703)308-6606 .

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)305-3900.

NTV

June 29, 1999



MARK R. POWELL
SUPERVISORY PATENT EXAMINER
GROUP 2700